

COVER SHEET FOR MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS

THE SCOPE OF WORK OF THESE DRAWINGS INCLUDES:

ALL ELECTRIC POWER FOR THE PARK.  
ALL PARKING LOT AND ENTRY LIGHTING  
PLUMBING, MECHANICAL, AND ELECTRICAL FOR THE TOILET BUILDING  
(EXCLUDING PRE-FABRICATED ITEMS)

CODE REFERENCES:

2006 VIRGINIA UNIFORM STATEWIDE BUILDING CODE AND  
ALL SUBSIDIARY CODES INVOKED THEREIN.

2005 NATIONAL ELECTRICAL CODE.

OTHER CODES AS SPECIFICALLY LISTED IN THE  
SPECIFICATIONS.

LIST OF DRAWING REVISIONS:

CHANGES OF ADDENDUM 1 DATED 10/14/2010:

1. ADDED SCOPE OF WORK DESCRIPTION TO COVER SHEET.  
2. DELETED TRANSFORMER PAD.

ELECTRICAL SEPARATION OF WORK



1. DOMINION VIRGINIA POWER (DVP)

DVP WILL BE PROVIDING A NEW 120/240-VOLT, SINGLE PHASE, SERVICE FROM A CURRENT POLE LOCATION (PROBABLY POLE G139) ON THE SOUTH SIDE OF COLONIAL HIGHWAY (BUSINESS RT. 7) AND ROUTE THE SERVICE LATERAL SECONDARY CONDUCTORS ALONG AND UNDER THE HIGHWAY AND TERMINATE THEM IN THE CURRENT TRANSFORMER (CT) CABINET THAT IS TO BE MOUNTED ON THE EXTERIOR OF THE ELECTRICAL SERVICE/CONTROL ENCLOSURE THAT IS TO BE LOCATED ALONG THE EXISTING TREE LINE/FENCE BETWEEN THE NEW PAVILION AND THE HIGHWAY. THIS INCLUDES TRENCHING, BORING, CONDUIT, SERVICE WIRE, AND BACKFILLING. DVP WILL ALSO CONNECT FROM THE CURRENT TRANSFORMERS TO THE METER WHICH WILL BE MOUNTED ADJACENT TO THE CT CABINET. THE CONTRACTOR WILL COORDINATE ALL WORK WITH DVP.

2. LOUDOUN COUNTY INVITATION FOR BID (IFB) QQ-01594, SCOTT JENKINS MEMORIAL PARK

WORK UNDER THIS IFB QQ-01594 EXPLICITLY EXCLUDES WORK TO BE DONE UNDER THE SEPARATE LOUDOUN COUNTY IFB QQ-01605, ELECTRICAL FOR SOLAR LIGHTING AND ELECTRICAL VEHICLE CHARGING STATIONS FOR THE SCOTT JENKINS MEMORIAL PARK AS DESCRIBED SEPARATELY UNDER THAT HEADING (3, BELOW).

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL AND INCIDENTAL ITEMS AS NOTED IN THE CONTRACT DRAWINGS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING (A-H,BELOW).

- a) ALL ELECTRICAL SERVICE/CONTROL CABINETS, ENCLOSURES, PANELBOARDS, CIRCUIT BREAKERS, WIREWAYS, RACEWAY, CONDUIT, CONDUCTORS, SAFETY SWITCHES, DISCONNECTS, FUSES, BUSES, DISTRIBUTION BLOCKS AND INTERNAL AND EXTERNAL COMPONENTS, FOUNDATIONS AND ANCHOR BOLTS/ASSEMBLIES;
- b) ALL TRENCHING, DUCT BANKS, CONDUIT, BELL ENDS, GROUND RODS, SPLICE KITS AND CONDUCTORS WITH INCIDENTAL COMPONENTS;
- c) ALL HAND HOLES AND JUNCTION/PULL BOXES;
- d) ALL ELECTRICAL COMPONENTS TO CONNECT TO ON THE PREMISES SIDE OF THE SERVICE POINT IN THE CT CABINET.
- e) ALL ELECTRICAL COMPONENTS FOR TOILET ROOM, WELLS, IRRIGATION SYSTEM, DRAINFIELD SYSTEM, SCOREBOARD SYSTEMS AND COMMUTER PARKING LOT;
- f) ALL FOUNDATIONS AND ANCHOR BOLTS/ASSEMBLIES FOR LIGHTING POLES AND ELECTRIC VEHICLE CHARGING STATIONS
- g) ELECTRICAL PERMITS AND ACCEPTANCE BY LOUDOUN COUNTY
- h) SUBMIT ALL REQUIRED DOCUMENTATION AS STIPULATED IN THE CONTRACT DOCUMENTS;

3. LOUDOUN COUNTY IFB QQ-01605, ELECTRICAL FOR SOLAR LIGHTING AND ELECTRICAL VEHICLE CHARGING STATIONS FOR THE SCOTT JENKINS MEMORIAL PARK

WORK UNDER THIS IFB QQ-01605 EXPLICITLY EXCLUDES WORK TO BE DONE UNDER THE SEPARATE LOUDOUN COUNTY IFB QQ-01594, SCOTT JENKINS MEMORIAL PARK AS DESCRIBED SEPARATELY UNDER THAT HEADING (2, ABOVE).

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL ITEMS AS NOTED IN A-G, BELOW:

- a) SUPPLY AND INSTALL THE CABLING FOR THE POWER AND THE POLES, ARMS AND LUMINAIRES FOR TWENTY FOUR (24) LIGHT EMITTING DIODE (LED) PARKING LIGHTING POLES. THE NUMBERS AND TYPES OF LUMINAIRES ARE SHOWN ON THE DRAWINGS. THE CABLING WILL INCLUDE ALL SPLICE KITS AND INCIDENTAL MATERIALS AND WILL BEGIN AT THE PANELBOARD AND TERMINATE AT THE CONNECTION TO THE LUMINAIRES.
- b) SUPPLY AND INSTALL THE CABLING FOR THE POWER AND THE CHARGING STATION DEVICES FOR FIVE (5) ELECTRIC VEHICLE CHARGING STATIONS (EVCS). THE CABLING WILL INCLUDE ALL SPLICE KITS AND INCIDENTAL MATERIALS AND WILL BEGIN AT THE PANELBOARD AND TERMINATE AT THE CONNECTION TO THE CHARGING STATIONS.
- c) SUPPLY AND INSTALL TWENTY FOUR (24) SOLAR PHOTOVOLTAIC ARRAY SETS (48 SOLAR PANELS) MOUNTED ON 24 LIGHTING POLES AS SHOWN ON THE DRAWINGS. SOLAR ARRAY HARDWARE WILL INCLUDE THE PANELS, THE INVERTERS, DC WIRING, AND AC WIRING AS DETERMINED BY THE HARDWARE TO BE SUPPLIED. THE SOLAR PHOTOVOLTAIC POWER WILL BE GRID TIE ONLY. THE SOLAR PHOTOVOLTAIC ARRAYS WILL UTILIZE AN AZIMUTH TRACKING SYSTEM. THE FOUNDATIONS AND ANCHOR BOLT ASSEMBLIES ARE NOT INCLUDED IN CONTRACT NO. QQ-01605 AND ARE TO BE PROVIDED UNDER QQ-01594;
- d) THE ELECTRIC VEHICLE CHARGING STATIONS WILL INCLUDE HARDWARE, SOFTWARE, AND COMPONENTS AS NEEDED FOR BILLING USERS FOR POWER AS DETAILED IN THE SPECIFICATION.
- e) SUPPLY AND INSTALL CAPABILITIES FOR FIVE (5) FUTURE ELECTRIC VEHICLE CHARGING STATIONS RELATIVE TO THE TYPE APPROVED FOR THIS PROJECT;
- f) SUBMIT ALL REQUIRED DOCUMENTATION AS STIPULATED IN THE CONTRACT DOCUMENTS;
- g) COMPLETE OPERATION AND ACCEPTANCE OF ITEMS A) THROUGH F) AS A PART OF PHASE I, PART 1 OF THE CONSTRUCTION OF THE SCOTT JENKINS MEMORIAL PARK.

SHEET	TITLE	REVISION	DATE
E001	ELECTRICAL & MECHANICAL NOTES, SYMBOLS, DETAILS	PERMIT AND BID	10/5/2010
E002	ELECTRICAL PANEL SCHEDULES, NOTES	PERMIT AND BID	10/5/2010
E003	ELECTRICAL PANEL SCHEDULES	PERMIT AND BID	10/5/2010
E101	ELECTRICAL PLANS CENTER AND EAST	ADDENDUM 1	10/14/2010
E102	ELECTRIC POWER – WEST	PERMIT AND BID	10/5/2010
E103	ELECTRIC POWER – NORTH	PERMIT AND BID	10/5/2010
E104	ELECTRIC POWER – EAST	PERMIT AND BID	10/5/2010
E200	SOLAR PHOTOVOLTAIC SCHEMATIC DIAGRAM	PERMIT AND BID	10/5/2010
E201	SOLAR PHOTOVOLTAIC SCHEMATIC DIAGRAM	PERMIT AND BID	10/5/2010
E301	SOLAR PHOTOVOLTAIC PLAN CENTER AND EAST	PERMIT AND BID	10/5/2010
L001	SITE LIGHTING DETAILS	PERMIT AND BID	10/5/2010
L100	SITE LIGHTING WEST LAYOUT PHOTOMETRICS	PERMIT AND BID	10/5/2010
L101	SITE LIGHTING EAST LAYOUT PHOTOMETRICS	PERMIT AND BID	10/5/2010
L102	SITE LIGHTING DETAILS	PERMIT AND BID	10/5/2010
P100	PLUMBING	PERMIT AND BID	10/5/2010

FOR PROJECTS IN VIRGINIA THIS SHEET IS THE COVER SHEET PRESCRIBED BY APELSCIDLA BOARD REGULATIONS DATED APRIL 1, 2009, SECTION 18 VAC 10-20-760 THAT CONTAINS A LIST OF DRAWINGS INCLUDED IN THE SET. THIS SHEET CONTAINS THE SEAL, ORIGINAL OR ELECTRONIC DIGITAL SIGNATURE, AND DATE. OTHER SHEETS OF THE SET CONTAIN REPRODUCED SEALS, SIGNATURES, AND DATES.

18 VAC 10-20-760. Use of seal (April 1, 2009)

B. An appropriately licensed or certified professional shall apply a seal to final and complete original cover sheets of plans, drawings, plats, technical reports and specifications and to each original sheet of plans, drawings or plats, prepared by the professional or someone under his direct control and personal supervision.

1. All seal imprints on the cover or first sheet of final documents shall bear an original signature and date. “Final Documents” are completed documents or copies submitted on a client’s behalf for approval by authorities or recordation. In such cases, the cover sheet of the documents or copies shall contain a list of drawings or plats included in the set on which a seal, original signature and date shall be affixed for all regulated disciplines. Every page of the submission, other than the cover, may be reproduced from originals which contain the seal, original signature and date by each discipline responsible for the work.

- a. An electronic seal, signature and date are permitted to be used in lieu of an original seal, signature and date when the following criteria, and all other requirements of this section, are met:
- It is a unique identification of the professional;
  - It is verifiable; and
  - It is under the professional’s direct control.



Signatu  
re Valid



Digitally signed by Robert M. Cohen  
DN: cn=Robert M. Cohen, c=US  
Date: 2010.10.14 19:49:17 -04'00'  
Reason: I am approving this document

THE ABOVE APPLIED ELECTRONIC SEAL, SIGNATURE AND DATE IS  
GENERATED AND APPLIED USING THE ADOBE ADOBE ACROBAT VERSION 5.0  
DIGITAL SIGNATURE TOOL AND IN A MANNER THAT MEETS ALL OF THE  
REQUIREMENTS OF 18 VAC 10-20-760 AS QUOTED ON THIS SHEET.

This MEP plan set supersedes the 9-20-10 original bid set!

PERMIT AND  
BID, NOT FOR  
CONSTRUCTION  
UNTIL  
APPROVED BY  
THE COUNTY  
AND RELEASED  
FOR USE

SOLAR ENERGY DESIGN, INC.  
MECHANICAL AND ELECTRICAL ENGINEERS  
3822 PRINCE WILLIAM DRIVE  
FAIRFAX, VIRGINIA 22031-3821  
PHONE 703-978-0873 FAX 703-978-9473  
WWW.SED-INC.COM

A1	ADDENDUM 1 CHANGES	10/14/10	
NO.	DESCRIPTION	DATE	CHKD
	REVISION		

PROFESSIONAL SEAL
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PROJECT	SCOTT JENKINS MEMORIAL PARK PHASE 1 CONSTRUCTION PLAN CATOCTIN ELECTION DISTRICT LOUDOUN COUNTY, VIRGINIA
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TITLE	MEP COVER SHEET
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Patton Harris Rust & Associates Engineers, Surveyors, Planners, Landscape Architects.	208 Church Street SE Leesburg, VA 20175 T 703.777.3616 F 703.777.3725
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DESIGN	RMC	SURVEY	
DRAWN	RMC	DATE	10/5/2010
CHECKED	ED	SCALE	NO SCALE
SHEET	CS	FILE NO.	13608-2-0

STPL #2009-0011